SEPT 87

NORTHERN SAN DIEGO COUNTY

W6NWG

Scope

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THE PALOMAR AMATEUR RADIO CLUB, INC.
POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0630

W6NWG/R 146.730 (-)
449.425 (-)
145.050 (Pkt)

SEPTEMBER, 1987

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
VICE PRESIDENT: Bob Brehm, KB6QC, Carlsbad 931-8759
SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

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>>>>>>>--- President's Message ---<<<<<<<

###---NOVICE/TECH/GENERAL CLASSES---###

Please check with your family and friends to see if they are interested in joining our amateur radio theory classes which will start at the end of September or the first week in October. Demonstration boards are being constructed and we are looking for teachers of specific subjects: code, resistors, capacitors, transformers, power supplies, etc. Let us know about your abilities and be sure to get the names of potential students in to a club officer as soon as possible.

$$$---FINANCE---$$$

The club ended the financial year with $12 which is a little deceptive. This does not include "paid ahead dues", special purpose funds and other budgeted money not yet spent. We have accomplished many things this year and your dues, gifts, and your sales efforts with the amateur radio pins are greatly appreciated. We only hope that the club can serve you and amateur radio in the San Diego area as well as you have served the club this past year.

###---FIELD DAYS PAST AND PRESENT---###

KG6VX-Bud Lincoln reports the following information on PARC Field Days past:

Year /	CW	/CW%	/Phone/	Tot	QSO/Pts.
1985	298	15.6	1613	1911	4418
1986	338	16.1	1759	2097	4870
1987	354	14.6	2069	2423	5554
total	990	---	5441	6431	---
%	15.4%	---	84.6%	100%	---

Our QSO total is improving but it is debatable if it is due to skill or band conditions. The CW percent each year is almost constant. Our multiplier for CW is X2 so about 30% of our points come from CW.

1987	Phone	CW	%CW
80M	258	55	18
40M	422	201	32
15M	-	33	100
20M	1215	56	4
10M	68(Novice)		-
6 M	20	-	-
2 M	70	2	3
432	16	1	6

With band conditions being about the same for each sub band it is easy to see that the CW percents really need improving. Interference between 20 Phone and 20 CW for the first time in three years lost us many contacts on 20M CW but we hope to prevent this problem in the future by proper station separation and filters. We hope we will be able to get some of the club's CW operators who did not participate this past Field Day into the 20-15-10 operating position next year. We have the potential to double our points next year and CW is a big part of the answer. Wait till next year!

###---THANKS---###

Thanks to the Sunday morning Amateur Radio Emergency Service (ARES) net controls who have helped me for the past five months: W6JSP-Floyd, N6MMP-Mike, and W6HCD-Nash Williams.

73 de Stan, W 9 F Q N

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CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome. MEETINGS ARE NOT A FUNCTION OF THE VISTA UNIFIED SCHOOL DISTRICT AND ARE NOT SANCTIONED BY THE BOARD OF TRUSTEES OF THE SCHOOL DISTRICT. So there!

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SEPTEMBER CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE: Dr. Mike Tentler speaking on An Update from Inside Russia. Mike's past talks have been fascinating and have developed a real insight into electronics, social life, and politics in this interesting country. Since most Russian hams are prohibited from speaking about "how it is", Mike's expose should be most exciting. So bring your questions to ask Mike, and leave your tape recorders at home.

Incidently, the October program will be the annual auction. Start to clean out your shacks now and call KB6QC (931-8759) if you want a pick up on goodies you want to donate to the Club for auctioning. Things that sell well include accessories and most items under $50. Higher priced items are slooow movers. We also will have a silent action for items brought in by club members. See Bob Brehm, KB6QC, at the picnic or September club meeting for details. Let's make this year's auction a great one by planning early and cleaning out the junk you don't need.

Anyone with items for show and tell, bring 'em along, but contact W9FQN prior to the meeting's start so that you may be included.

We hope more of the faithful will bring tasties to go with the coffee.

AUGUST CLUB MEETING

At the August club meeting our mystery speaker was Steve Miller of Radio West, who demonstrated some of the antennas and radios he sells, and told us about the SWL field. A most interesting talk. During show and tell, we heard from Todd, N6PPN, on his new toy, the Kenwood TM-221A, one of the best of the bunch in the 2M 45 watters; and from Phil, WF6L, on the subect of the Turbo-controlled FT-757GX. WF6L read the minutes of the previous meeting and WI6B the Treasurer's report and fiscal report for the year 86-87. They were approved. W9FQN reported that, thanks to paying off the mortgage on the Club's Palomar Mountain repeater site, we are in better shape than ever. The coffee by Bill, N6OPP, and tasties by Mary, N6NOG, and at least one other thoughtful person were sooo gooood. Thanks folks. A grand time was had by all 68 members and 13 guests who attended.

ANNUAL PICNIC

A great picnic! The PARC received, via Fried Heyn, WA6WZO, a plaque commemorating 50 years of affiliation with the ARRL. Betty, KB6DSC, won the $200 HRO gift certificate, Joe, W6HLB, the one for $75, and Lloyd, W6TFB, the one for $25. Ted, N6NAU, and A.J., KB6NML, won the Callbooks and Dennis, N6KI, the Handbook. The last three prizes were donated by HRO.

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MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is $12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are $12 for the first family member, and $9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are $3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530. Ads and other material for Scope to PO Box 73, Vista 92083 by Wednesday, two weeks before the club meeting.

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EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the August meeting, which was held at the home of W9FQN, the Committee heard and approved the Minutes of the previous meeting and the Treasurer's Report. The Committee voted to spend up to $50 on soft drinks for the annual picnic. The Amateur Radio Class and the possibility of using space at Lincoln Middle School and the problems of suitable text books were discussed. The coffee and tasties were delicious. September meeting to be held at the WF6L QTH.

EXPIRED AND EXPIRING AMATEUR RADIO LICENSES

A readout from the Gi'nt Computer reveals that the following folks have licenses which have expired or are expiring on the dates indicated: 7/85 K6II, 11/85 W6VDA, 7/86 KA6PPD, 12/86 W4NYU & W6PNT, 1/87 W2FWV, W6JSP, NG6Z 2/87 KD6QJ, WB6WGT, K6CLU 3/87 N6TE 4/87 N6GWJ 5/87 WA6HYC, K6MRK 8/87 WB6BHE 9/87 W6BHF, KA6FPS, N7AS 1/88 WB6IQS, K7WLX 2/88 K6BPT, WD6BRX, WB6NIJ, N6YX 3/88 K6GQS, K6HE, WA6WSZ 4/88 KB6AI, W6BXJ 6/88 WD6AXN, KA6KZN, WA7BIA 7/88 KH6CN, W6EYP 8/88 WB6HMY, K6RF 9/88 K6HAV, N6INN, W6JJA, K6QQ, WB6VYC, WA6VYD,W6YYV 10/88 KA6GRG 11/88 N6AQV, WA6SVN, WB6TBQ 12/88 K6GAK 10/89 NU6L 11/89 KD6WZ. This readout is for all licenses expiring prior to 1990. Additions, deletions, and changes to the foregoing should be given to Skip, K6RTD, on the repeater or via the Club's P.O. box, since he now serves at the bidding of the Gi'nt Computer. Winterwagon indeed!!

FORESAIL

(The halyard, ya say!)

TenTec 580D HF SSB & CW xcvr in xlnt condx w/QSK, CW filter, matching pwr supply, and mike. Asking $550. Call Vern, W6HW, 805 986-2036.

Kenwood TS-120S HF xcvr, $275; Kenwood PS-50 pwr supply, $85; Palomar Engineers tuneable xcvr preamp, $45; ICom IC-451A 430-440 mHz all-mode 20W xcvr w/built-in pwr supply (operates from 117VAC or 12VDC), $350. Call Bob, KB6QC, 931-8759.

ICom R-7000 VHF/UHV (25-2000 mHz) scanning receiver, mint condx, in orig. box, $725; Drake WH-7 HF SWR/wattmeter. Drake MN-2000 2KW PEP antenna tuner. Call Allen, N7AMR, 434-5656.

TI-59 programmable calculator w/programs & PC-100 thermal printer. Never raced. Make offer. Call Dennis, N6KI, 271-6079.

Homebrew linear amp. 400W output. Heathkit SB-614 2" monitorscope. AEA CP-1 RTTY/CW/ASCII computer interface and Hamsoft cartridge for C-64. C-64 w/1541 disk drive w/amber monitor, 80-column card, 64 Modem, Centronics printer interface, RS-232 interface, 80-column word proc. & spreadsheet, compiler, Basic enhancement, graphics, astronomy, many ham programs, 50 diskettes, books, manuals and more, all for $525. Cubex III-PT 2-element tri-band quad, CDE Ham III/CD44 rotor, and Dentron Super Tuner, $175. Call Alan, WZ6F, 723-7514.

Vic 20, Commodore tape deck, C-64 complete w/pwr supply & QBF word processor software, no display. Call Alma, KE6HI, 753-2542.

Four new 872A hi-voltage rectifiers in original boxes. FREE. Call Nash, W6HCD, 728-3574.

Atlas 350XL w/pwr supply, mint condx, $500. Call Clint, W6OFT, 729-0850.

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Yaesu FT-720RU 10W 440 mHz mobile FM xcvr w/detachable control head, $250; Astron RS-6A pwr supply, $40; Yaesu YM-39 condensor hand mike, $15. Heathkit HN-31 1KW dummy load, $15; Swan WM-2000A peak reading wattmeter, $40. Call Ralph, K6HAV, 727-5866.

Heathkit SB-201 HF xcvr w/A.C. pwr supply, in xlnt operating condx. RCA WR64A Color Bar/Dot/Crosshatch Gen. $20. Call Stan, W9FQN, 749-0276.

Heath ultra-sonic intrusion alarm GD 1558 - for car - mint w/xtra horn & relay, $20. Drake 2B rx, near mint, $40. MFJ 200BX freq. standard and markers every 25, 50, & 100 kHz, mint condx, $15. Heath HD-15 phone patch, assembled but never used, $25. Call Dan, WA6HYB, 433-4445.

Tek 465 o'scope, 100 mHz dual-trace, $800. Call Lou, N6CKQ, 755-9179.

10-40M flagpole antenna (concealed trap vertical in a flagpole) w/40' of coax. Call Floyd, W6JSP, 741-8391.

MFJ 407 deluxe elect. keyer w/AC adapter, $40. Call Tim, KI6GI, 469-2920.

Wilson TTA45 2-sect. crankup mast w/ant. rotator and 2-elm, 3-band quad. Call Tray, N6AYQ, 728-2789.

Tri-Ex HM-354 3-sect., 54', crank-up, tilt-over, free-standing tower, new Alliance rotator, and 2-elm 3-band Quad. ICom IC-02AT 2M HT w/case, new, unused, $300. Call Jack, W6QP, 724-3341.

Kenwood TS-700A all-mode 2M 25W xcvr, $210; Kenwood PC-1 phone patch, $40; ICom IC-2AT, $160; Heath SB-200 amp., $285; Swan WM-1500 wattmeter, $35; Ney Deluxe Straight Key, $18. Call Duane, AA6EE, 789-3674 eves.

WANTED

Owners Manual for Kenwood TS-511S. Call Frank, N6AT, 728-8003.

NO Two iron 20' tower sections to be used as cross-arms on the repeater tower. Contact Stan, W9FQN, 749-0276.

Icom IC-22S in working condx. Call Dennis, N6KI, 271-6079.

JOIN THE ARRL

The American Radio Relay League is the national Amateur Radio entity to which you should belong if you want to support your hobby. If you're not an ARRL member you should be! Who else have you got to lobby for your hobby?

When joining/re-joining the ARRL, do it via the Club which will receive a modest stipend otherwise going to the ARRL. Make your check payable to the Club and get it, with your membership application, to Treasurer, Ron, WI6B.

CLUB'S AFFILIATION WITH THE ARRL NOW SPANS 50 YEARS

The PARC has been affiliated with the ARRL for 50 years according to a letter from Lee Hayford, AH2W, Manager of the ARRL's Club Services Department. At the Club's annual picnic, Fried Heyn, WA6WZO, ARRL SW Div. Director presented to the Club a very handsome commemorative plaque.

FROM THE ARRL LETTER

The ARRL replied to PRB-3, the FCC's notice which inquired if the private sector could establish a program to grant requests for specific amateur call signs. In its reply the League emphasizes that the Commission should administer any call sign program. The ARRL strongly believes that the assignment of call signs is a governmental function, which should not be relinquished, or contracted away by the FCC. If, however, this is not to be, the ARRL is willing to undertake the administration of the task under certain conditions, which include: A single entity must administer the program; the cost of the call signs would be $25 initially with a renewal charge of $10. No one to have a right to a particular call, even if previously held. The FCC has informally indicated that this is a high

priority item and some sort of action will probably take place in the Spring of 1988.

The Palomar Amateur Radio Club is one of eleven to receive an award for 50 years of affiliation with the ARRL.

450 MHZ BAND IS NOW "CLOSED" IN SOUTHERN CALIFORNIA

So says the Southern California Repeater and Remote Base Association (SCRRBA), the frequency coordinating organization for the 29, 52, 450, 902, 1240 mHz and microwave amateur radio bands, in its August newsletter. The gist of the article is that all channel pairs on the 70CM band are now assigned and in use. Further applications for 450 mHz repeater, control, and linking frequencies on this band must wait for someone else to abandon a channel or channel pair!

Should the FCC now go ahead, as proposed, and take away two megaHertz of the 220 mHz band, no room is left on 70CM for the control and link functions which will be displaced - and of course, there's no room for 'em on 220!!! I sure hope that you too have written to your congressman and senators about this.

The PARC, WA6QQQ, K6HAV, and N6INN all received unsatisfactory responses from Congressman Ron Packard, who merely parrotted the FCC's argument on why the two megs should go to the commercial interests! We have responded to his letter and asked for his support in the fight against the commercial grab. We'll let you know if we hear further from Mr. Packard, and we told him we'd tell you. The response from Sen. Alan Cranston didn't promise support, but did indicate he would look into it. Nothing so far from Sen. Pete Wilson. Stay tuned, BUT W R I T E TO THEM NOW!!

REPEATER

Ted, N6CKH, has opened up the subject of an autopatch on W6NWG/R for emergency use. Sure seems to be time for the Club to be considering this sort of thing.

I don't know about you, but I resent the Habitual Free Loaders (HFLs) on the repeater which you and I make possible. I resent their continued use of OUR repeaters after they've agreed they'd like a membership application but have studiously avoided doing anything about it long after receiving it. I tend to avoid communicating further with them and almost never answer their calls for someone to make a telephone call for them. I guess I'm a hardhead, but I've always believed in paying my way - not freeloading on the other guy. HFLs sometimes remind you that the frequencies are free. The answer to that is: "So is water, but you still have to pay for the pipes to get it to you." You and I are paying the HFLs' water bill!

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THREE REPEATERS, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 mHz and an output of 146.730 mHz. Input for another is 444.425 mHz and output is 449.425 mHz. The third, W6NWG, is a packet radio digipeater on 145.050 mHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. Unfortunately, John is somewhat of a stickler and requires, not only money but, that you let him in on your name and call sign if you want them on a badge all of your very own - like the big guys have.

THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS IS to IGNORE IT!

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Don't give the jammer what he or she craves - notice and attention. Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the crazies. At the same time, try to hear the interfering signal on the input of the repeater and, if possible, determine the direction of the source.

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NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Rick Hier, N6MTL, to Extra Class; Eleanore Call, WB6OJL, and Lynne Farley, KB6PZE, to Technician. Congratulations!

GNU CLUB MEMBERS: Barry Merritt, N7EQU; Bob Boles, Jr., N3BLL; George Swenson, KB6AQS; Joe Hypnarowski, WA6VNR, San Diego; John Neuman, WB6RTY, San Marcos; Pat Stedman, KB6OXS, Cardiff; Caroline Lincoln, KB6???, Leucadia; Charles Paige, KB6QWH, Oceanside. Welcome, we're glad you're with us.

RENUDE MEMBERS: Ken Carlson, N9AKB; Earl Leak, K6CLU; Vern & Mary Paschke, NOCPS & N0EVV; Roy Maxson, W6DEY; Jack Honts, WD0DLW; Jay Carr, W6FAY; Don Johnson, WD6FWE; Mac McBride, WB6GXR; Ed & Judy Ross, N6GZI & KB6DEM; Alma Bourhenne, KE6HI; Joe Craig, W6HLB; Ted & Cynthia Mitchell, N6IES & KB6HGR; Rick & Becky Matros, N6KEU & N6KAL; Betsy Ross, KB6MBL; Rick Hier, N6MTL; Charles Littlefield, KI6MV; Ralph Neiger, N6NEH; Bob Rivera, WA6NNC; Gene Horrall, K6PP; Bob Brehm, KB6QC; Victoria Vickery, KB6QJO; Duane Stedman, WB6R; Ted Cullian, K6RF; Bob & Jane Rice, KS6S & AD6Z; Harry Williams, W6TCI; Chuck Dowling, KI6TG; Bill Taylor, K6TQ; Bud Lincoln, KG6VX; Bill & Sandy Williams, WA0ABX & WB0WGU; Henry Kirschner, WB0YCQ; Bill Denton, NG6Z; Del Partridge, WV6Z. Welcome back. 37 renewals.

GNU CALL SIGNS: Jeremy Simmons, N6QBI, vice KB6SFL; Susan Rohrer, N6QDB vice KB6NZS; and John Albrechtsen, KI6XJ vice KB6QAU.

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FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind the City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month starting at 10:00 a.m.

Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at Coast Savings & Loan, 1540 E. Valley Parkway, Escondido.

Applicants for examination must send a S.A.S.E., a completed, signed Form 610 (PHOTO-COPIES ARE NOT ACCEPTABLE) and a copy of license(s) and Certificate(s) of Successful Completion, if any, to SANDARC-VEC, Post Office Box 2456, La Mesa, CA 92041 ten days prior to the testing date. Form 610 may be obtained from the FCC. Applicants MUST BRING ORIGINAL LICENSES AND CERTIFICATES OF SUCCESSFUL COMPLETION (if any) with them.

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VOLUNTEER EXAMINERS PROGRAM

At our August tests we administered 20 test elements to 15 applicants. Seven applicants passed a total of seven elements.

Congratulations to PARC members Eleanore Call, WB6OJL, and to Lynne Farley, KB6PZE, who up-graded to Technician.

Our crew was: KG6VX reception; W6DEY and WA6HYB CW exams; N6NNI, AA6DI, and W6YYV, examiners; and W6TFB, KB5MU, and WA6KZN on the computers.

SANDARC-VEC is hoping to find someone to step in and do the Team Leader's job so that the north county sessions may continue after N6INN retires in mid-October. If you can volunteer, see me and I will be happy to put you in touch with the VEC. Or see W9FQN.

de Pat, N6INN

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling it to the flea markets. The Club will sell it and put the money in the Equipment Fund to buy that new repeater, antenna, or feedline. See any club officer.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: The El Cajon ARC ham-computer-electronics swap meet at the Santee Drive-in theater on Woodside Ave at Hwy 67 in Santee at 0700 on the first Saturday of the month.

The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the Gen. Dyn. parking lot east of Haven on Fourth Ave, starting at 0700.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month at 0700.

SURPLUS GOODIES of the electronic persuasion at HIGHWAY COMPANY in the plain, unmarked white building at 305 W. Wisconsin Ave., Oceanside. See their ad in this issue. Aluminum, brass, copper, stainless steel, etc. at Escondido Sales at 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, nicads at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and at Gateway Electronics, 4633 Convoy St.

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DOWN THE TOOBE

Former club member Doc Burton, KA6DWU, took a trip to Samoa and liked it so well that he and the XYL have decided to move there, according to an article in one of the local papers.

PARC-member Dr. Paul Bonds, N6PHR, opthalmologist and eye surgeon, will talk on current techniques in opthalmology including cataract and glaucoma treatment at the Tri-City Medical Center Education Series on September 29th, according to the August issue of the TCMC Health Perspectives.

"That's all", she wrote!

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THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 mHz (-600 kHz) at 2000 local to handle formal written traffic. Visitors are welcome. Net Manager is N4KRA. Liaison stations needed.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 mHz each Tuesday at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is sometimes net control station, sometimes general factotum.

RECEIVED TOO LATE TO CALCIFY FORESAIL: Atlantis 55 VHF marine radio telephone, $300. Call Skip, K6RTD, 727-2374.

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THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 mHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and the beginning microwaver. All are welcome. Kerry, N6IZW, is net control station.

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QSL CARD FROM ORIGINAL HOLDER OF W6NWG RETURNS TO ROOST

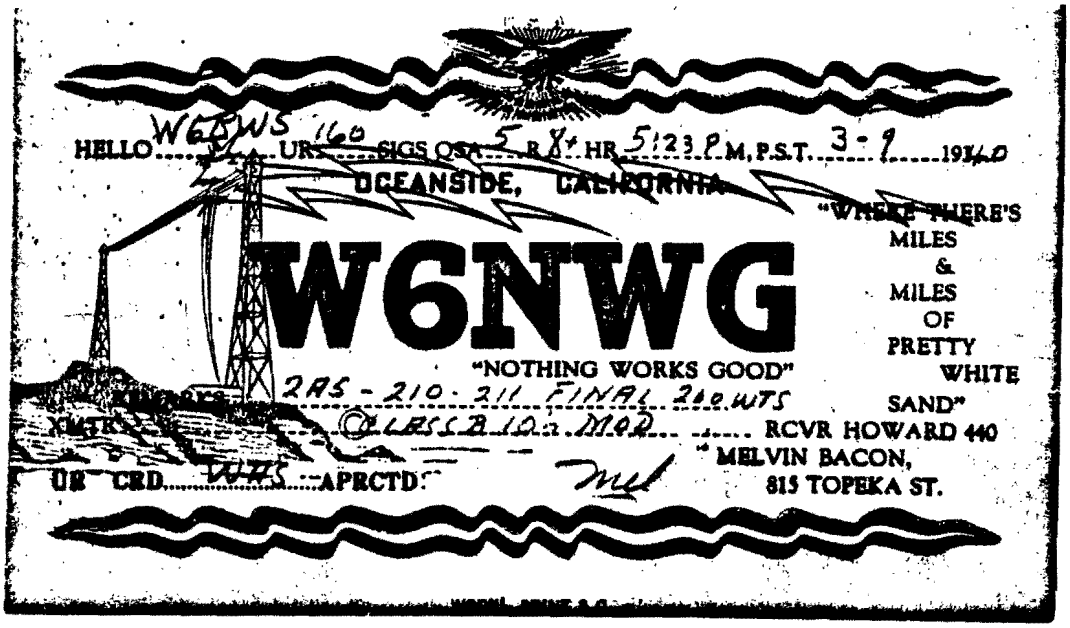
The Club recently received a QSL card sent on 4/2/40 by the original holder of the Club's call, W6NWG, to confirm a contact made in 1940. Mel Bacon, the original W6NWG, was a charter PARC member. The note from the person sending the card to the Club and the QSL are reproduced below.

I recently obtained a box with some QST's from the 1940-1950 era and at the bottom of the box I found the enclosed QSL card . You will notice that they date back to the 1940's and I realize that in some cases they are not your personal card but rather the same call letters listed for you in the 1987 CALLBOOK. I thought you may enjoy having this momento to put with your files.

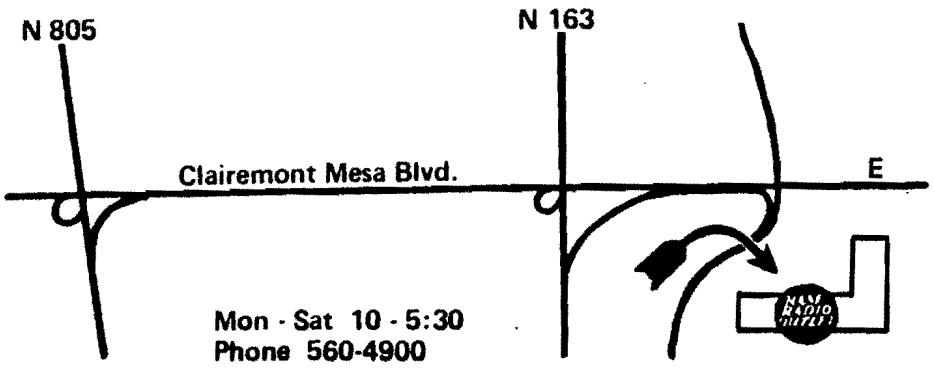
In the case of those of you who may be seeing your QSL card after a period of 47 years, I only hope that I may have brightened your day and re-kindled fond memories. I would like to say thank you for keeping Amateur radio going during those years so I may enjoy this fascinating hobby.

73 to you all and maybe we will get together someday on the air....

Tom
TOM
WD6EAW



HAM RADIO OUTLET



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5375
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SAN DIEGO, CA 92123

TOM KM6K, Mgr.
GARY K6CAQ

KENWOOD TW-4100. New Duo-band Mobile... $584.95
KENWOOD TH21BT, 31BT, 41BT Mini HTs w/free extra battery
KENWOOD TS-440S/AT NEW HF MOBILE.... $1019.95
KENWOOD TM-221.. NEW 2M MOBILE 45 WATTS & PL..... $349.95
YAESU FT-757GX... NEW MK II MODEL..... $989.95
YAESU FT-2700..... DUO-BAND 2M/450mHz full duplex..... $449.95
ICOM IC-735..... New HF Gen. Coverage. $849.95
ICOM IC-38A/TT... 220mHz MOBILE..... $409.95
ICOM IC-u2AT..... MINI-HANDY..... $295.00
KENWOOD TH-215.. NEWEST GENERATION HAND HELD..... $309.95
YAESU FT-23/TT... State of the Art HT.... $269.95
ICOM IC-3200..... Duo-Bander 2M/450mHz. $539.95
COME SEE THE NEW ICOM IC-900A REMOTE SYSTEM

While browsing . . don't forget to see the PACKET *set-up using the Commodore 64 and the AEA interface. Let us demonstrate this fascinating mode for you.*

COMMUNICATIONS SPECIALISTS sub-audible units for your FM and HT rigs. We have a good stock of antennas, and of course, a good supply of rotors, too. Don't forget - we have guaranteed used equipment also.

HAM RADIO OUTLET

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Escondido, CA 92025

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BYTES 'N PIECES

By Paul Williamson, KB5MU

As you read this, you may still have time to make plans to attend the Sixth ARRL Amateur Radio Networking Conference. The Conference will be held at the TRW Space and Technology facility, on Compton Boulevard between Freeman Avenue and Aviation Boulevard in Redondo Beach, on Saturday, August 29 from 9:00 AM to 6:00 PM. Look for the TRW cafeteria just south of the white high-rise TRW administration building, or ask for talk-in on W6TRW/R, 145.32 mHz (-). The site is about 1/4 mile from the infamous TRW swap meet (which is held the same morning at 7:00 AM).

The past five Conferences have chronicled the progress of packet radio from the very beginning of U.S. experimentation through the current attempts to add higher-level networking functions to the packet radio networks. This year's Conference will include announcements of new hardware for network control and high-speed data transmission, many papers on various aspects of computer networking, and lots more. There will be a separate room just for live demonstrations. Most of the content will be fairly technical, but there will be a beginners' session at 9:00 AM. The technical papers will begin at 10:00 AM, and should offer the latest and greatest in amateur packet radio technology.

For those unable to attend the conference, a short summary should be given on the Packet Voice Net. The Net is held every Tuesday (except the second Tuesday of each month) at 9:00 PM on W6NWG/R, 146.73 (-). Also, the San Diego Packet Radio Association (SANDPAC) plans to have video tapes of the best presentations at future meetings.

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BARB, SUE, STAN ROHRER
W9FQN KA6FPS KB6NZS
30311 CIRCLE R LANE
VALLEY CENTER, CA. 92082